

Tie Wire, Solid Bare Aluminum, Soft Drawn



1. Scope

This standard covers the requirements for soft drawn, solid bare aluminum, 1350 alloy wire.

This standard applies to Seattle City Light (SCL) Stock No. 600085.

2. Application

Solid bare aluminum tie wire is used in overhead distribution line construction to mechanically secure components such as conductors to pin type insulators.

3. Industry Standards

Wire shall meet the applicable requirements of the latest revision of the following industry standards:

ASTM B609 – Aluminum 1350 Round Wire, Annealed and Intermediate Tempers, for Electrical Purposes

NEMA WC-26 – Binational Wire and Cable Packaging Standard

4. Requirements

Wire shall meet the applicable requirements of ASTM B609 and Table 4 with the following clarification:

Aluminum alloy shall be soft drawn, 1350 alloy.

Table 4. Requirements

Size (AWG)	Diameter, Nominal (in)	Weight (lb per 100 ft)	Breaking Strength, Minimum (lb)
4	.204	3.84	369

5. Packaging

Wire shall be packaged to prevent damage during shipping, handling and storage.

Wire shall be packaged as shown below.

Standard Package	Length, Nominal (ft per standard package)	Weight, Nominal (lb per standard package)
Spool	250	10

Actual wire length per spool may vary from the quantity stated on the purchase order by plus or minus 10%.

Each package shall be marked with:

- Length of wire
- Manufacturer name and address
- SCL stock number
- SCL purchase order number

6. Issuance

Stock Unit: FT

7. Approved Manufacturers

Nehring Electrical Works Company
Southwire Company

8. Sources

SCL Material Standard 6100.10; "Wire, Solid Bare Copper, Hard Drawn"

Shetab, Muneer; SCL Standards Engineer, subject matter expert and originator of 6003.18 (muneer.shetab@seattle.gov)

Standard Handbook for Electrical Engineers; 8th Edition; A.E. Knowlton, McGraw Hill Book Company, Inc., 1949

Stock Catalog page 60-1; June 8, 2018